	Approved For Release 2004/05/M2 CIA-RDP78B04747A000300020003-4	25X1
	ATTACHMENT TO:	25X1
	MEMORANDUM FOR: Chief, Technical Services Group, NPIC ATTENTION: Chief, Technical Operations Staff, TSG/NPIC SUBJECT: Monthly Report for October 1972	
	A. SIGNIFICANT ITEMS OF INTEREST FOR OCTOBER 1972: 1. Imagery Interpretation Research Program The FY-72 contract was extended at no additional cost to 15 December in order to complete the Search Improvement Program and the human factors	25X1 25X1
	and operational evaluations of the Search and Scan PI Station. a. A change-in-scope to the FY-72 contract provides for human factors support to a Color Evaluation Working Group program comparing the search function on color and B/W photography.	25X1
	b. The PAR for the FY-73 reached the final compilation and editing stages. c. The FY-71 Imagery Interpretation Program Evaluations were completed.	25X1
	2. Narrowband Color Viewer Evaluation (In-house). Work began on a three month evaluation of the concept of narrowband illumination as applied to the exploitation of color photography.	
25V1	3. Color Training Program (In-house). A two hour lecture on the psychophysics of color perception is currently under development. It is scheduled for presentation to IEG personnel in late November.	
25X1	NRO review(s) completed. Declass Review by NIMA/DOD	25X1
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25X1	4. TID Engineering Support The TID was set up in Room	
	2N-147 and restored to operating condition. However, inadequate air con-	
	ditioning prevents successful use of the TID in the new room. Logistics	
	has been requested on two occasions to correct this condition.	
	5. Diagnostic Computer Program	25X
	Debugging of the maintenance program was completed and the calibration	
	program resolved. Acceptance tests on both were successfully completed	
	on 6 October 1972.	•
	6. Color Simulation Photography The final photography was	25X ²
	processed and appears satisfactory for use as stimulus material for the	
	Color Difference and Colorimetric Image Correction Program. It will be	
	delivered in mid-November.	
	7. Color Equipment Investigation Program The final	25X
	report of the Microcolorimetry Research Study was received and will be	
25X1	distributed.	
25X1	8. Dry Silver visited	25X
	for an extensive briefing on the status of all dry silver	•
	materials, equipment, and projects. The main purpose of the visit was	•
	to collect information for the Dry Silver Implementation Plan being worked	
25X1	on Highlights of the briefing included: (1) Dry Silver	
25X1	is equal in resolution to duplicating film; (2)	25X ²
	several dry silver film and paper products are in full commercial	

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25X1	ATTACHMENT TO:	25X1
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	production and plants at locations have been certified;	25X1
	and (3) several Navy and Air Force projects are underway for utilization	
	of dry silver in the tactical environment. Full details of the briefing	
•	will be covered in a separate trip report	25X1
-	9. Interference Contrast Preparations to Enhance Surface-Relief Images	
25X1	A final work order report on this process was received	,
25X1	The technique involves treatment of a film to provide viewing	
	of film surface relief with an ordinary microscope and reflected light.	
	Additional detail was obtained in areas of high film density. A follow-on	
	work order with improved methods and work with normal images is planned.	
•	10. Image Science Research (Pending). The D.O. was written and	
	submitted for review within RED.	
	11. Colorimetric Image Correction Program (In-house). is	25X1
	working on a program approach to provide an in-house capability for pro-	
	ducing corrected color imagery.	
25X1	12. Security (In-house). Research Branch personnel noticed	
	codeword material in the trash receptacle for the machine in the	25X1
	parking lot on 13 October. The material was given to Security personnel.	
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(RED) is the principal	25X1
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reviewed the design	25X1
reviewed the design	25X1
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cellent. The final computer predic-	25X1
cellent. The final computer predic- 1/.63 Radial at 78 1/mm 1/.73 Radial at 66 1/mm	
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1/.63 Radial at 78 1/mm 1/.73 Radial at 66 1/mm ceed .10 MTF at 180 1/mm. (Phase II) The microscope	
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1/.63 Radial at 78 1/mm 1/.73 Radial at 66 1/mm ceed .10 MTF at 180 1/mm. (Phase II) The microscope	25X1
1/.63 Radial at 78 1/mm 1/.73 Radial at 66 1/mm ceed .10 MTF at 180 1/mm. (Phase II) The microscope	*
	(In-house). A project was initiated tween IEG (PI area) and PHD to transmit (RED) is the principal

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	Further optimizing is still required for use with the Zoom Stereoscope.	25X1
	The contractor expects to complete this project in December 1972two months ahead of schedule.	
		25X1
	for the condenser lens damaged during installation of the SSPIS in July,	∠5∧ i
	was installed over the 28-29 October weekend without interrupting opera-	•
	tional suitability tests.	
25X1	20. Dry Silver Materials A report indi-	25X1
20/(1	cates that the latest negative acting material shows significant improvement	∠3∧ i
	over previous lots in resolution retention, printing speed, and image	
•	neutrality. The resolution readings were 148 1/mm (1.54:1 contrast) and	
	194 1/mm (2.18:1).	
25X1	21. ON Inspection Table This table, which provides a	
	clean environment in which to handle ON material, was developed	25X1
25X1	and is being installed in the Film Library. Tacky rollers	um Tilonia
.0/(1	clean the emulsion and damage due to defects or tearing of the film is	25X1
	automatically detected.	
	22. Quick Stereo Objectives delivered these prototype	25X1
	lenses for test and evaluation on the Zoom rhomboids. They are fitted	25X1
	with a beam splitter and port which allows an operator to look down through	
	the top of the objective to center it at a desired point. It should speed	
	up the stereo alignment process considerably.	
25X1	23. Rear Projection Device This attachment for the Zoom	25X1
25X1	has been delivered This device will permit the investigation of	25X1
	OF ODET	
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	ATTACHMENT TO:	
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	SUBJECT: Monthly Report for October 1972	
	small-screen scanning as an operational concept. It provides a high	
	quality image on a four inch diameter screen at 4X magnification.	
25X1	Vibration Improvement has completed this project	25X1
	and demonstrated a seven-fold reduction in vibration without interfering	
	with the normal operation of the table. This improvement package will	
	be demonstrated in NPIC during November. A retrofit package will be	
25X1	available at a cost of per table.	٠,
25X1	25. UV Projection Study The state-of-the-art review was	•
	completed during this month. The final report on the feasibility of	
	developing an UV Projection viewer will be delivered in November.	
25X1	26. DIA Light Table DI-8 and RED have completed the	
25X1	evaluation of the DIA version of the Light Table which has	25X1
	evaluation of the bit volume	_5,
	now been turned over to ESD for testing.	•
	B. MEETINGS, BRIEFINGS, ETC.	· ·
25X1	1. Automated Exploitation Techniques On 26 October,	25X1
207(1	(SC&PB) discussed a possible agreement with	
25X1	personnel to perform research for	•
25X1	TSG/RED on a no-cost basis.	
	2. High Resolution Color attended a	25X1
25X1	meeting with representatives to discuss	25X1
20/(1	processing problems encountered during testing of the high-resolution,	25X1
	color, microfilm-type, transparency material under evaluation	
	cotor, microtifia-type, cransparation,	
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	As a result of this	meeting	agreed to fu	urnish
us with more film and	chemicals in order to	make an oper	ational test	of
this material.	,\$4. 			
3. TID. A demon	nstration of the TID wa	s given to	7	
	NPIC/PS	_	Examples o	f out-
put data were shown,	and the operation of the	ne TID in the	e general scr	eening
mode was demonstrated				
4. Color Contro		individuals	were briefed	lon
the Color Control Cel	.1:			
the Color Control Cel	1:			
the Color Control Cel	1:			
the Color Control Cel	1:			
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the Color Control Cel	· .	·		
C. D.O.'s, PROPOSAL	LS, AND PARS	evaluated:		
C. D.O.'s, PROPOSAL 1. The following	LS, AND PARS ng proposals are being	evaluated:		
C. D.O.'s, PROPOSAL 1. The following a. Dry Silv	LS, AND PARS ng proposals are being ver Reversal Material			
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved	LS, AND PARS ng proposals are being ver Reversal Material d Light Source for Prin	nter		
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved c. Photoin	LS, AND PARS ng proposals are being ver Reversal Material d Light Source for Print terpreter's Stage Retic	nter		
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved c. Photoing d. ICM Mod	LS, AND PARS ng proposals are being ver Reversal Material d Light Source for Printerpreter's Stage Retion	nter cle		
C. D.O.'s, PROPOSAL 1. The following and Dry Silve bear Improved concentration of the province of the provinc	LS, AND PARS ng proposals are being ver Reversal Material d Light Source for Print terpreter's Stage Retion ifications cope Eyeshades Model II	nter cle	n	<u> </u>
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved c. Photoing d. ICM Mode e. Microscope.	LS, AND PARS Ing proposals are being IN Reversal Material Ind Light Source for Print Iterpreter's Stage Retion Iffications Iterpreter Stage Retion Iffications Stage Retion Iffication Stage Retion Ifficat	nter cle m Duplication	n	
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved c. Photoing d. ICM Mode e. Microscope f. Improved 2. D.O.'s have	LS, AND PARS Ing proposals are being over Reversal Material of Light Source for Printerpreter's Stage Retions of Lamps for Aerial Files been prepared on the	nter cle m Duplication following:		
C. D.O.'s, PROPOSAL 1. The following a. Dry Silve b. Improved c. Photoing d. ICM Mode e. Microscof. Improved 2. D.O.'s have a. High Research	LS, AND PARS Ing proposals are being IN Reversal Material Ind Light Source for Print Iterpreter's Stage Retion Iffications Iterpreter Stage Retion Iffications Stage Retion Iffication Stage Retion Ifficat	nter cle m Duplication following:		

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bossies. Montally Report 1st Section 1172
c. PI CRT Station Evaluation
d. Image Science Research Program
3. The following projects have been approved:
a. Enlarger
b. Advanced Correlator
c. Microscope Eyeshades
D. PERSONNEL
E. SIGNIFICANT ITEMS FOR NOVEMBER:
Film Thickness Measurements. A requirement has been received from OSP
for more film thickness measurements. The new set is much larger than the
old and some new instrumentation will be required. The approach to this
instrumentation is currently awaiting clarification of the requirement and
its priority. Appropriate test gear will either be fabricated or purchased
under contract,
Deputy Chief